

CLAIMS

1. An antenna glazing (1) for automobiles, comprising:
 - 5 - an electrically conducting cladding (2) extending surface-wise over the surface of the glazing (12) up to a zone of the free edge of the cladding, said cladding (2) serving as antenna element,
 - 10 - a coupling electrode (4) furnished with external connections, said electrode (4) being coupled in the capacitive regime to the electrically conducting cladding (2) with interposition of an insulating layer (13), and
 - 15 the coupling electrode (4) being composed at least of one thin wire, characterized in that said at least thin wire starts from the zone at the edge of the glazing (1), is conducted over the surface covered by the
 - 20 cladding (2) and is returned to the zone of the edge with at least one fold, so that the two ends (4A, 4B) of said wire are situated in the zone of the edge of the glazing (1).
- 25 2. The antenna glazing (1) as claimed in claim 1, characterized in that the wire of the coupling electrode (4) forming a loop, starting from its point of reversal furthest from the ends (4A, 4B) of the wire, is folded back until the ends of the
- 30 wire are in proximity, the portions of the wire extending parallel to one another with spacings which are appreciably larger than the thickness of the wire.
- 35 3. The antenna glazing (1) as claimed in one of claims 1 or 2, characterized in that the two ends (4A, 4B) of the wire of the coupling electrode (4) are placed in a narrow local neighborhood.

4. The antenna glazing (1) as claimed in one of claims 1 or 2, characterized in that the two ends (4A, 4B) of the wire of the coupling electrode (4) are placed at locations spaced apart.
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5. The antenna glazing (1) as claimed in one of claims 1 or 2, characterized in that the two ends (4A, 4B) of the wire of the coupling electrode (4) are placed in proximity to two different corners.
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6. The antenna glazing (1) as claimed in one of the preceding claims, characterized in that an end (4A) of the wire of the coupling electrode (4) is linked to a receiver and/or transmitter apparatus downstream, while the other end (4B) is free or terminated by way of a matching resistor (5).
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7. The antenna glazing as claimed in one of the preceding claims, characterized in that several coupling electrodes are provided at spaced apart locations.
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8. The antenna glazing as claimed in claim 7, characterized in that the ends of the wires of several coupling electrodes are placed in a narrow local neighborhood.
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9. The antenna glazing (1) as claimed in one of the preceding claims, characterized in that its edge zone is covered with an opaque edge strip (3), said strip covering the coupling electrode (4) at least partially.
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10. The antenna glazing (1) as claimed in one of the preceding claims, characterized in that the external connections for the coupling electrode (4) are established with the aid of a connection element, forming an interface (6) which is linked to the ends (4A, 4B) of the wire of the coupling
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electrode (4) in the zone at the edge of the glazing.

- 5 11. The antenna glazing (1) as claimed in one of the preceding claims, whose coupling electrode (4) is a component prefabricated on a support (7), with an adhesive layer for the fixing by adhesion of the wire to the antenna glazing (1).
- 10 12. The antenna glazing as claimed in claim 11, characterized in that the prefabricated component comprises an interface (6) for establishing the external connections of the coupling electrode (4).
- 15 13. The antenna glazing as claimed in one of the preceding claims, characterized in that the conducting cladding (2) and the coupling electrode (4) are placed inside a composite (11, 12, 13) forming the glazing (1), from which the ends (4A, 20 4B) of the coupling electrode (4) and/or an interface (6) linked to them are conducted to the outside.
- 25 14. The antenna glazing as claimed in one of the preceding claims, characterized in that the coupling electrode is connectable to an electrical supply voltage superimposed on the antenna signal voltage and is usable in the guise of electric heating element on demand.
- 30 15. The antenna glazing as claimed in one of the preceding claims, characterized in that said at least one thin wire of the coupling electrode (4) exhibits a diameter in a range lying between 10 35 and 100 μm .
16. The use of an antenna glazing as claimed in one of claims 7 or 8 within the framework of a diversity antenna device.